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## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- An intracorporeal device comprising: 1. (Original)
- a helically wound coil having a plurality of windings forming a coil length; and a)
- four joining elements disposed along the coil length, wherein each joining b) element couples two or more coil windings.
- (Currently Amended) The intracorporeal device according to claim 1, wherein the 2. plurality of joining elements include includes at least 10 elements disposed along the coil length.
- (Currently Amended) The intracorporeal device according to claim 1, wherein the 3. plurality of joining elements form a non-uniform pattern along the coil length.
- (Currently Amended) The intracorporeal device according to claim 3, wherein the 4. plurality of joining elements have has a density of joining elements per unit coil length that decreases along the coil length.
- The intracorporeal device according to claim 4, wherein the 5. (Original) density of joining elements per unit coil length decreases in the distal direction along the coil length.
- (Currently Amended) The intracorporeal device according to claim 1, wherein the plurality of joining elements form a uniform pattern of joining elements along the coil length.
- The intracorporeal device according to claim 1, wherein each 7. (Original) joining element couples 3 to 10 coil windings.

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- 8. (Original) The intracorporeal device according to claim 1, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 9. (Original) The intracorporeal device according to claim 1, wherein each joining element is a discrete element having a width in the range of 0.1 to 0.5 mm and a length in the range of 0.1 to 1.5 mm.
  - 10. (Original) An intracorporeal device comprising:
  - a) a helically wound coil having a plurality of windings forming a coil length; and
- b) a plurality of joining elements disposed along the coil length, wherein each joining element only couples two or more coil windings.
- 11. (Original) The intracorporeal device according to claim 10, wherein the plurality of joining elements includes at least 10 elements disposed along the coil length.
- 12. (Original) The intracorporeal device according to claim 10, wherein the plurality of joining elements form a non-uniform pattern of joining elements along the coil length.
- 13. (Original) The intracorporeal device according to claim 12, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.
- 14. (Original) The intracorporeal device according to claim 13, wherein the density of joining elements per unit coil length decreases in the distal direction along the coil length.
- 15. (Original) The intracorporeal device according to claim 10, wherein the plurality of joining elements form a uniform pattern of joining elements along the coil length.

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- The intracorporeal device according to claim 10, wherein each 16. (Original) joining element couples 3 to 10 coil windings.
- The intracorporeal device according to claim 10, wherein each 17. (Original) joining elements is a discrete element aligned orthogonal to the windings.
- The intracorporeal device according to claim 10, wherein each 18. (Original) joining element is a discrete element having a width of 0.1 to 0.5 micrometer and a length of 0.1 to 1.5 mm.
  - An intracorporeal device comprising: 19. (Original)
- a helically wound coil having a plurality of windings having an outer perimeter a) and forming a coil length; and
- a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two or more coil windings.
- The intracorporeal device according to claim 19, wherein the 20. (Original) plurality of joining elements includes at least 10 elements disposed along the coil length.
- The intracorporeal device according to claim 19, wherein the 21. (Original) plurality of joining elements form a non-uniform pattern of joining elements along the coil length.
- The intracorporeal device according to claim 21, wherein the 22. (Original) plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.
- 23. The intracorporeal device according to claim 19, wherein the (Original) plurality of joining elements form a uniform pattern of joining elements along the coil length.

- 24. (Original) The intracorporeal device according to claim 19, wherein each joining element couples 3 to 10 coil windings.
- 25. (Original) The intracorporeal device according to claim 19, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 26. (Original) The intracorporeal device according to claim 19, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- 27. (Original) The intracorporeal device according to claim 19, wherein each joining element is disposed on less than 1/10 of the outer perimeter of each winding.
  - 28. (Original) A medical device comprising:
  - a) an elongate shaft;
- b) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length disposed about a portion of the elongate shaft; and
- c) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two or more coil windings.
- 29. (Original) The medical device according to claim 28, wherein the plurality of joining elements includes 10 elements disposed along the coil length.
- 30. (Original) The medical device according to claim 28, wherein the plurality of joining elements form a non-uniform joining element pattern along the coil length.
- 31. (Original) The medical device according to claim 30, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.

- 32. (Original) The medical device according to claim 28, wherein the plurality of joining elements form a uniform joining element pattern along the coil length.
- 33. (Original) The medical device according to claim 28, wherein each joining element couples 3 to 10 coil windings.
- 34. (Original) The medical device according to claim 28, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 35. (Original) The medical device according to claim 28, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
  - 36. (Original) A guidewire comprising:
  - a) an elongate shaft having a proximal end and an opposing distal end;
- b) a helically wound coil having a plurality of windings having an outer perimeter and forming a coil length disposed about a portion of the distal end; and
- c) a plurality of joining elements disposed on only a portion of the outer perimeter and along the coil length, wherein each joining element couples two coil windings.
- 37. (Original) The guidewire device according to claim 36, wherein the plurality of joining elements includes 10 elements disposed along the coil length.
- 38. (Original) The guidewire device according to claim 36, wherein the plurality of joining elements form a non-uniform joining element pattern along the coil length.
- 39. (Original) The guidewire device according to claim 38, wherein the plurality of joining elements has a density of joining elements per unit coil length that decreases along the coil length.
- 40. (Original) The guidewire device according to claim 36, wherein the plurality of joining elements form a uniform joining element pattern along the coil length.

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- The guidewire device according to claim 36, wherein each joining 41. (Original) element couples 3 to 10 coil windings.
- The guidewire device according to claim 36, wherein each joining 42. (Original) element is a discrete element aligned orthogonal to the windings.
- The guidewire device according to claim 36, wherein each joining 43. (Original) element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- The guidewire according to claim 39, wherein the helically wound 44. (Original) coil has a proximal end and a distal end and where the density of joining elements per unit length decreases from the proximal end to the distal end.
  - A guidewire comprising: (Original) 45.
  - an elongate shaft having a proximal end and an opposing distal end; a)
- a helically wound coil having a plurality of windings having an outer perimeter **b**) and forming a coil length disposed about a portion of the distal end; and
- a plurality of joining elements disposed on only a portion of the outer perimeter c) and along the coil length, wherein each joining element couples two coil windings;
- a second coil having a plurality of windings circumferentially disposed about the d) first coil wherein the joining elements couple a plurality of second coil windings to adjacent first coil windings.
- The guidewire device according to claim 45, wherein the plurality 46. (Original) of joining elements includes at least 10 elements disposed along the coil length.
- The guidewire device according to claim 45, wherein the plurality 47. (Original) of joining elements form a non-uniform joining element pattern along the coil length.
- The guidewire device according to claim 45, wherein the plurality 48. (Original) of joining elements form a uniform joining element pattern along the coil length.

- 49. (Original) The guidewire device according to claim 45, wherein each joining element couples 3 to 10 coil windings.
- 50. (Original) The guidewire device according to claim 45, wherein each joining element is a discrete element aligned orthogonal to the windings.
- 51. (Original) The guidewire device according to claim 45, wherein each joining element is a discrete element having a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
- 52. (Original) A process for forming and intracorporeal device comprising; forming a plurality of joining elements on a helically wound coil having a plurality of windings that define an outer perimeter and form a coil length, wherein the joining elements are disposed on only a portion of the outer perimeter and along the coil length and each joining element couples two coil windings.
- 53. (Original) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying thermal energy to the coil.
- 54. (Original) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying laser energy to the coil.
- 55. (Original) The process according to claim 52, wherein the forming a plurality of joining elements comprises applying laser diode soldering to the coil.
- 56. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming at least 10 elements disposed along the coil length.
- 57. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming a non-uniform joining element pattern along the coil length.

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- 58. (Original) The process according to claim 57, wherein the forming a plurality of joining elements includes forming a plurality of joining elements that has a density of joining elements per unit coil length that decreases along the coil length.
- 59. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming a uniform joining element pattern along the coil length.
- 60. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming a plurality of joining elements wherein each joining element couples 3 to 10 coil windings.
- 61. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming discrete elements wherein each discrete element is aligned orthogonal to the windings.
- 62. (Original) The process according to claim 52, wherein the forming a plurality of joining elements includes forming discrete elements wherein each discrete element has a width of 0.1 to 0.5 mm and a length of 0.1 to 1.5 mm.
  - 63. (Original) A product produced by the process of claim 52.